

WHAT IS CLAIMED IS:

1. A crystallized glass for an optical filter substrate, which has an average linear expansion coefficient  $\alpha_L$  of from  $95 \times 10^{-7}/^{\circ}\text{C}$  to  $130 \times 10^{-7}/^{\circ}\text{C}$  at from  $-30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  and  
 5 which has a crystal or solid solution of  $\text{Na}_{4-x}\text{K}_x\text{Al}_4\text{Si}_4\text{O}_{16}$  ( $1 < x \leq 4$ ) precipitated therein.

2. The crystallized glass for an optical filter substrate according to Claim 1, which consists, as represented by mol% based on the following oxides,  
 10 essentially of:

	$\text{SiO}_2$ :	30 to 65%,
	$\text{Al}_2\text{O}_3$ :	5 to 35%,
	$\text{TiO}_2 + \text{ZrO}_2$ :	1 to 15%,
	$\text{Na}_2\text{O}$ :	0 to 30%,
15	$\text{K}_2\text{O}$ :	5 to 30%,
	$\text{Li}_2\text{O}$ :	0 to 15%,
	$\text{MgO}$ :	0 to 15%,
	$\text{CaO}$ :	0 to 15%,
	$\text{SrO}$ :	0 to 15%,
20	$\text{BaO}$ :	0 to 15%,
	$\text{ZnO}$ :	0 to 15%,
	$\text{B}_2\text{O}_3$ :	0 to 15%,
	$\text{P}_2\text{O}_5$ :	0 to 15%,
	$\text{Y}_2\text{O}_3$ :	0 to 15%.

25 3. The crystallized glass for an optical filter substrate according to Claim 1, which has an average linear expansion coefficient  $\alpha_H$  of from  $80 \times 10^{-7}/^{\circ}\text{C}$  to

$155 \times 10^{-7}/^{\circ}\text{C}$  at from  $190^{\circ}\text{C}$  to  $220^{\circ}\text{C}$ .

4. The crystallized glass for an optical filter substrate according to Claim 1, wherein  $\alpha_H$  is from  $110 \times 10^{-7}/^{\circ}\text{C}$  to  $145 \times 10^{-7}/^{\circ}\text{C}$ .

5. The crystallized glass for an optical filter substrate according to Claim 1, which has a Young's modulus of at least 85 GPa.

6. The crystallized glass for an optical filter substrate according to Claim 1, which has an absorptivity coefficient of at most  $0.03 \text{ mm}^{-1}$  for a light having a wavelength of 1550 nm.

7. An optical filter comprising an optical filter substrate made of the crystallized glass for an optical filter substrate as defined in Claim 1, and a dielectric multilayer film formed on the substrate.

8. A crystallized glass for an optical filter substrate, which consists, as represented by mol% based on the following oxides, essentially of:

	SiO <sub>2</sub> :	5 to 60%,
20	Al <sub>2</sub> O <sub>3</sub> :	10 to 30%,
	TiO <sub>2</sub> +ZrO <sub>2</sub> :	1 to 15%,
	Na <sub>2</sub> O:	4 to 20%,
	K <sub>2</sub> O:	4 to 20%,
	CaO+SrO+BaO	0.1 to 10%,
25	MgO:	0 to 10%,
	B <sub>2</sub> O <sub>3</sub> :	0 to 10%,
	P <sub>2</sub> O <sub>5</sub> :	0 to 10%,

and which has an average linear expansion coefficient  $\alpha_L$  of from  $95 \times 10^{-7}/^{\circ}\text{C}$  to  $130 \times 10^{-7}/^{\circ}\text{C}$  at from  $-30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  and which has a crystal or solid solution precipitated therein.

- 5 9. The crystallized glass for an optical filter substrate according to Claim 8, which has an average linear expansion coefficient  $\alpha_H$  of from  $80 \times 10^{-7}/^{\circ}\text{C}$  to  $155 \times 10^{-7}/^{\circ}\text{C}$  at from  $190^{\circ}\text{C}$  to  $220^{\circ}\text{C}$ .
- 10 10. The crystallized glass for an optical filter substrate according to Claim 8, wherein  $\alpha_H$  is from  $110 \times 10^{-7}/^{\circ}\text{C}$  to  $145 \times 10^{-7}/^{\circ}\text{C}$ .
11. The crystallized glass for an optical filter substrate according to Claim 8, which has a Young's modulus of at least 85 GPa.
- 15 12. The crystallized glass for an optical filter substrate according to Claim 8, which has an absorptivity coefficient of at most  $0.03 \text{ mm}^{-1}$  for a light having a wavelength of 1550 nm.
- 20 13. An optical filter comprising an optical filter substrate made of the crystallized glass for an optical filter substrate as defined in Claim 8, and a dielectric multilayer film formed on the substrate.